

PolyOne Geon™ Vinyl Rigid Molding M3500 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M3500-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	71.1 cm	28.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	46.2 MPa	6700 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	6.40 J/cm	12.0 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.8 °C	163 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	77.2 °C	171 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa	71.1 °C	160 °F	Unannealed; ASTM D648

(264 psi) Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
	75.0 °C	167 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	85.0 °C	185 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
UL RTI, Mechanical without Impact	85.0 °C	185 °F	UL 746
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	

Descriptive Properties	Value	Comments
Appearance	Opaque	
Features	General Purpose	
	High Impact Resistance	
	Medium Flow	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliances	
	Business Equipment	

Descriptive Properties	Value	uction Applications	Comments
		Electrical/Electronic Applications	
		General Purpose	
		Telecommunications	

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